

AMENDMENT TO THE CLAIMS

1. (Original) A sound reproduction system comprising at least two sound sources, at least one of said at least two sound sources emitting an acoustical sound wave with a nonuniform amplitude distribution pattern, the sound sources together producing an area remote from the respective sound sources including points non-equidistant from the at least two sound sources where amplitudes received from the at least two sound sources are approximately equal at points within the area.

2. (Original) A sound reinforcement or reproduction system of claim 1 wherein the sound sources are displaced from the plane of the listening positions.

3. (Original) The sound production system of claim 1 wherein at least one sound source further comprises a plurality of sound sources radiating acoustical waves in nonparallel directions and in unequal amplitudes.

4. (Original) A sound reinforcement or reproduction system of claim 3 wherein the sound sources are displaced from the plane of the listening positions.

5. (Original) The sound production system of claim 1 wherein the amplitude of a first acoustical wave emitted from a first sound source in a first direction is a multiple of the amplitude of a second acoustical wave emitted from a second sound source in a second direction intersecting the first acoustical wave within said remote area at a point of intersection, the multiple being a function of the relative distances of said first and second sound sources from said intersection.

6. (Original) A sound reinforcement or reproduction system of claim 5 wherein the sound sources are displaced from the plane of the listening positions.

7. (Original) A sound reproduction system comprising at least two sound sources and a mask between the sound source and said area toward which the sound source is directed, the mask having an nonuniform absorption capability yielding an acoustical wave emerging therefrom having a nonuniform amplitude distribution, the sound sources and the mask together producing an area remote from the respective

sound sources including points non-equidistant from the at least two sound sources where amplitudes received from the at least two sound sources are approximately equal at points within the area.

8. (Original) A sound reinforcement or reproduction system of claim 7 wherein the sound sources are displaced from the plane of the listening positions.

9. (Original) The sound reproduction system of claim 5 wherein distance, t, between the point of intersection within the remote area and the first sound source is a function of distance, s, between the point of intersection within the remote area and the second sound source.

10. (Original) A sound reinforcement or reproduction system of claim 9 wherein the sound sources are displaced from the plane of the listening positions.

11. (Original) The sound reproduction system of claim 9 wherein said function is in accordance with the following relationship $t^2 = r^2 + s^2 - 2rs \cos q$ where : r represents the distance between sound sources at A and B, s the distance between B and C, a listener location, t the distance between A and C, and q the angle between lines AB and BC.

12. (Original) A sound reinforcement or reproduction system of claim 11 wherein the sound sources are displaced from the plane of the listening positions.

13. (Original) A sound reproduction system producing a sound image at a plurality of listening locations within an area remote apparently emanating from a point equidistant between the sound sources, the system comprising at least two sound sources including a plurality of directional sound sources, arranged such that amplitudes of sound waves from the respective sound sources at points within the remote areas are approximately equal.

14. (Original) A sound reinforcement or reproduction system of claim 13 wherein the sound sources are displaced from the plane of the listening positions.

15. (Original) The sound reproduction system of claim 13 comprising two sound sources respectively representing left and right stereo sound signals with directionally nonuniform wave amplitude distribution patterns wherein each of the two sound sources comprises a plurality of acoustical wave loud speakers.

16. (Original) A sound reinforcement or reproduction system of claim 15 wherein the sound sources are displaced from the plane of the listening positions.

17. (Original) In a sound reproduction system including a plurality of sound sources, the method of obtaining remote areas non-equidistant from the sound sources where acoustical wave amplitudes received from said plurality of sound sources are approximately equal, comprising the following steps:

a. Positioning said plurality of sound sources before the remote areas;

b. Adjusting the acoustical wave amplitudes emanating from the sound sources as a function of direction to create an amplitude distribution pattern varying with direction of emission yields approximately equal amplitudes received within said remote areas.

18. (Original) The method of claim 17 wherein the additional step of positioning said sound sources out of the plane of the listening areas is added.

19. (Original) The method of claim 17 wherein the radiation from each source varies substantially in accordance with the formula $t^2 = r^2 + s^2 - 2rs \cos q$ where:

r represents the distance between sound sources at A and B,
s the distance between B and C, a listener location,
t the distance between A and C, and
q the angle between lines AB and BC.

20. (Original) The method of claim 19 wherein the additional step of positioning said sound sources out of the plane of the listening areas is added.

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